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Coxe Sulphur #9

March 13

David J. Ayres

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An
Inaugural Dissertation
on the
Chemical and Medicinal properties
of
Sulphur.

The following Essay was written under several disadvantages, and some apology may be deemed necessary for the hasty manner in which it has been thrown together and submitted to examination. I shall leave the state causes, usual on these occasions, of youth and inexperience, of being a tyro in medicine &c as the object which prompted this attempt is sufficiently explanatory of those circumstances. But it may be proper to remark that a subject so variegated as the one which I have here selected, would necessarily be more extensive and therefore more liable to defects, arising from want of system than one of a more strictly practical nature. To this I may add that want of health during the most important time, prevented its being completed as early or as satisfactorily to myself as wished. It is now however respectfully submitted, and its numerous imperfections, it is trusted, will receive that indulgence which might be expected, from the liberal and more enlarged view of its enlightened inspectors.

Introduction.

The Materia Medica in its present state, exhibits such an extensive variety of remedies for the management of diseases, that an attempt to introduce into notice any new article, would appear superfluous, unless it were possessed of very superior powers.

There are already in use, many medicines which might probably be dispensed with. But there are doubtless others, whose properties are not perhaps sufficiently appreciated, though long known as medicines, and which might admit of more extensive application.

Of this latter description, there is one, at present but little regarded in regular practice; and which, though apparently mild in its operation, and not in some respects intelligible, exhibits sometimes results equally salutary with those of the most active or powerful agents. The article to which I allude, and which has been selected, as the subject of the following observations, is *Sulphur*.

In investigating the properties of this Medicine, it is not my object to attribute to it any new virtues, but

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principally to endeavor, by enlarging the sphere of its applications, to illustrate its importance, satisfied, that it deserves more attention, than it now generally receives.

To prosecute the subject with that degree of regularity, and that regard to system which is desirable, I propose to consider, in the first place,

The Natural History and Chemical Properties of Sulphur.

Secondly, To offer some preliminary Observations relative to its value as a medicine.

thirdly, Its *Modus operandi* and Medicinal properties.

and lastly, to consider

Its application to Diseases, together with some general principles to be observed in regulating its employment.

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Sulphur is found in most parts of the world, and may be procured in greater or less quantity from Mineral, Vegetable, and Animal substances. But it is chiefly the product of Volcanoes, and is also dug out of mines in Germany; or sublimed from sulphureous grounds in Italy, near a small town called Sulphurata whence its name originated.

Sulphur is seldom found in nature, in a pure unmixed state. So great is its affinity for other substances, that it is almost always found combined with some of them. It is united with metals under various forms, from which it may be separated by the process of Roasting. It exists in many mineral waters combined with Hydrogen, and some vegetables yield it in considerable proportions, especially those of the Cruciforme tribe.

Sulphur is a solid, opaque, combustible substance, of a pale yellow colour; insoluble in water, very brittle, with little sensib. taste, and a peculiar smell when heated. It is composed of small and ill defined crystals. Its specific gravity

(a) American Dispensatory — by Dr. Coxe.

(x) Henry's Chemistry

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is stated at 1,990 or nearly twice as heavy as water. When grasped in the hand it makes a crackling noise and sometimes breaks, owing, probably to the expansive power of heat and its great fragility to it. It arrives by friction resinous ductile. It is fusible at 220° of Fahrenheit's thermometer; burns with a pale blue flame at 302° and with a violet white flame at 570° (x) and it is capable of combining with different proportions of Oxygen.

When Sulphur is fused, if the heat be rapidly increased it loses its fluidity, at 350° and becomes firm and of a deeper color. If the temperature be reduced it regains its fluidity, and may be ultimately retained in glass vessels, if the changes of heat be not slow, otherwise it is volatilized. It sublimates at 600° .

Sulphur after being melted, if suffered to cool, congeals into a crystalline form but so minutely that its crystals cannot be defined farther than that they are slender interlaced fibres.

If Sulphur be held in fusion in atmospheric air, it absorbs a small quantity of oxygen and forms an oxide of Sulphur. This when poured into water forms a soft red-brown substance resembling like wax, which has been used to take off impressions from medallions. These impressions are hard when the sulphur becomes

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cold. It is then of its specific gravity of 2.325 having ^{as} increased in weight.

If Sulphur be heated in atmospheric air sufficiently to take fire it burns with a pale blue flame, absorbing oxygen from the air and is converted into Sulphurous acid. When set on fire in pure oxygen it absorbs its maximum of this gas, burning with a brilliant light and Sulphuric acid is the product. From the acid however it is necessary to make the experiment over water.

The Sulphur of commerce is met with under two forms. The first is of a compact cylindrical shape, so formed by being cast into moulds, and is called the rolled vitimstone. The other is light powder prepared from the first by sublimation in glass vessels &c. &c. Flowers of Sulphur. The latter is generally the most pure, but the two varieties are readily convertible into each other in the moist sublimation of heat.

Wilhelm Sulphur has been found a simple substance. But the suggestions of M. Berthollet have rendered it probable that hydrogen enters into its composition. The late experiments of Mr. Davy tend to confirm this opinion. On submitting it to the action of a

a vide Henrys Chemist - also note by Dr. Leach.

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Wheat's galvanic battery he showed that the negative wire gave out Hydrogen and the existence of Hydrogen in Sulphur was rendered still more probable in his observing that a small quantity of water was also evolved during the combustion. It is not however settled, whether the Hydrogen in Sulphur is any thing more than an accidental ingredient^(a). But its ultimate nature is not the object of present inquiries.

Sulphur is the base of a great variety of compounds, many of which constitute the most powerful agents in Chemistry and Medicine. United, when mixed with its full proportion of Oxygen it forms Sulphuric acid, and the compounds of this acid with the alkalies and earths called Sulphates. Among these last are found some of our most useful cathartic medicines, as that formed with Magnesia called Epsom salt, and with Soda the genuine Sal Gai.

United with a less proportion of Oxygen it forms Sulphurous acid, and the compounds of this acid with the alkalies are the called Sulphites. The latter when exposed to the air in solution, absorb oxygen and are converted into Sulphates.

Sulphur when united with the alkalies or earths by fusion, and the intervention of the acid, forms the binary compounds

8 Dec. 7. La Grange

And Sulphurets in various species of distillation since we know of
a property of attraction they will decompose water and decom-
pose water converted into sulphurates by that process. We have also
a property of decomposing metallic acids of retaining or reviving them
in metallic state.

In combination with Hydrogen it forms the Sulphuretted
Hydrogen which compounds with chlorine and easily enters called
hydro sulphurets. In its union with these gases sulphurets of hydrogen
seem to perform the part of an acid and present an exception to
the doctrine of acidification. The Hydro sulphurets by exposure
to air absorb oxygen and become Sulphurates which at length by further
oxidation are converted into Sulphuric.

Sulphur united with iron in a still farther proportion with
Hydrogen, forms the Super Sulphuretted Hydrogen and its compo-
und with different bases called Hydrogen Sulphurets (Sulphurets)
or Sulphuretted Hydrogen Sulphurets. These when heated, exhale
Sulphuretted Hydrogen gas and the residue consists of Sulphur.

Sulphur may also be separated in a thermally united with
mercury when both are in a state of vapour forming the Sulphur
of Carbon or alcohol of Sulphur. This compound in its vapour
is called

x, & his Chemical Dictionary.

contains the greatest degree of S^d of any the known minerals.
The compound of Carbon combined by Bergius with a mixture of
sulfur with alkaline earths, bases forming Carb. sulphurals
the properties of which however have not been investigated.

Oil of Turpentine and other essential oils dissolve a
considerable proportion of Sulphur when hot the exact part of which
they deposit and crystals when cooled slowly. The fixed or asphaltic
oil in fatty oils, also unite with it on boiling, and acquire a
deep yellowish brown colour and a strong foetid odour. This sub-
stance is termed the Pelletum of Sulphur, which is repeated
several times by long keeping.

The order of affinities to Sulphur according to Bergman
is the following, — fixed Alkali, Iron Copper Tin Lead,
Silver, Bismuth, Antimony, Mercury, Arsenic, and Molybdenum.

Of the Preparation of Sulphur there are two forms
used in Medicine — the Sublimed or Flowers of Sulphur
and the Sulphur Precipitatum, &c. &c. the Lac
Sulphuris magister of Sulphur &c.

The Sublimed Sulphur is prepared by condensing the vapour

181. *Alina prima. Ditt.*

x *Thomas Geminus*

of melted sulphur into fine sieves or Chambers. It consists in
a mass of small grains, when examined by a
microscope appears to be composed of minute Crystals. ⁽²¹⁾ What
is called Sulphur Vivum. In this manner Sulphur is
in part purified and its purification is completed by boiling it repeat-
edly in distilled water. Then is twice or thrice its weight of Nitro-
muriatic acid added. It is a part of distilled water, and finally
washing it with distilled water till the colour of lachets, and
incapable of changing the blue colour of vegetables. To purify
the colour of Sulphur from mixture with Sulphurous acid
a small quantity of which is generally present after the process of
purification, it is also directed to wash the powder first with
a warm mixture of dilute solution of lead ash. And then with
two or three successive portions of warm water.

The Lee Sulphurets is prepared by decomposing ^{with} the
Sulphuric or other acid a Solution of Alkaline Sulphuret. A
fine white precipitate falls down, which is to be thoroughly washed
with by successive portions of warm water. Sulphur in
this state has a dull earthy appearance, so long as it is said to its
state of minute state of division. It is of a yellowish white colour.

x mid. Indian. Bloom. Dec 1844.

3. *Thibetian Sublimation Lotum* - 4 washed Flours of 1/2 pl.

smooth on almost insensations to the touch. By exposure to light
it becomes a yellow colour. This is thought to be the purest kind.

There are some of the impure kinds which are fast used in
Medicine. There is little difference between them, but it is the
lowest as being the most common to which I shall confine
my remarks.

Having now given a general outline of the Chemical
history and properties of Sulphur with the mode of preparing it
for Medical use. we shall now proceed to the second division
of our subject which consists chiefly of Observations relative to
the importance of Sulphur as a medicine.

Preliminary observations &c.

As an article of medicine Sulphur has long been
used and has long enjoyed a high reputation for many of its powers
and perhaps in many instances it has been indiscriminately employed.
A great deal appears to have been the confidence placed
in some occasions that it was a secret, as if by a magical



as the most violent and obstinate diseases. Hence it
was considered without attention to those circumstances which in
modern medicine practice, would suggest the propriety or im-
propriety of its administration. The numerous disappointments
had not given its former mode of employment occasion to
turning to look back until it had shared the fate of many
other remedies and nearly tended to be rejected as a medicine. To
its medicinal employment can hardly be added as another
cause of its neglect, the great avoidance with which it began to
be treated, and the consequent recollection of its loss, by which
it became too short to deserve particular attention as a medicine.
The disposition to be attracted by novelties is common to human
nature; that in every age in every time, new articles of value were
not common or abundant. However valuable those new ones
regarded. The nation of North America for example, would
hardly have continued traders of gold, because he had it in abundance
and knew not its value, for the most insignificant things
attracted the attention only on account of its novelty or the difficulty
with which it was obtained.

For a considerable time the medicine appeared to have sunk almost

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is of the most active and powerful description. "It is employed
in a great number of the operations. He treats it in various
forms as a cathartic. Change with the water denominated sulphuric
the change with the saline cannot be put into the vegetable and
mineral forms and records it. Chemists make an infinite number
of combinations." It is presumable therefore that it is powerful
clinical agent may also be found equally efficacious as a medicine.
In various cases in the animal economy which heretofore have
the physician undervalued or have not been sufficiently appreciated.
Having premised these remarks we shall next consider the Modes
Of using the Medicines Diabeticus & Sulphuric Temperata, & its
Mechanical applications.

Modus Morans. 77

In the action of the system Sulphuric appears to perform the part
of the operation of digestion & is stimulative and in some degree
is a tonic. But other properties have been ascribed to it which we shall
see after mention. Taken in doses of $\frac{ss}{ij}$ to $\frac{ij}{ss}$ it generally causes an
excretion from the bowels by gently stimulating and increasing

2. From the general effect, which this bit is apt to display in the system it is reasonable to suppose that it promotes absorption increasing the tonic power of the Lymphatics.

than the latter motion. It is thought to be chiefly on the great
intestines, though it appears also to have a tonic influence on the whole
mass of the alimentary canal, in as far as the action is a laxative
laxative, without insuring that sort of debility which follows the habit
or abuse. It is the same here that it operates on the bowels of *Quercus*
and *Lupinus*, in relaxing the surface and increasing the action
of the continuous vessels. The pulse is increased by it rather
in volume than in force. It appears to diminish the nervous power
of the brain, which it must do either on the principle of a sedative, or
by increasing the force of the excretory system. The other functions
are to be considered. It also leaves a tonic impression on the
stomach, by which the appetite, the digestive and increased, and
the whole system invigorated.

Although as a Laxative, *Saluberr* is in general mild in its
action, its effects are sometimes harsh and distressing, those of *Stimulus*
are sometimes more, when it becomes painful
and sometimes more. There is a very great
loss of the mucous. These effects however are in great
measure attributable to the impurity of the medicine, and not to the

a) rose. *Heurkewier* by S. Chapman.

calculus in destruction, namely, and even until the eggs of the
character of the calculus be fully excluded forming, tuberculous action
is a mode which is destroyed by repeated solution and the washed
nature of calculus only runs internally.

The *Modus Operandi* of calculus is that of a
minim which induces perspiration is still a subject of discussion,
and I shall merely observe that there are various opinions which may
be brought forward. According to one it has more its effects by inducing
the circulation and exerting on the fluids of the body, rather than
exciting their violent tension. The other supposes it to act
by exciting a primary local impression on the skin, to which is added
at length the medium of sympathy to other parts of the body, and
that if it enters the circulation it is converted to a primary local action
on the skin in an epidermic state.

In favour of the former opinion it is urged that calculus may be
seen to pass through the surface after its external use, and that
therefore it must have previously entered the circulation. This opinion is
sustained by Dr. Cox who also observes, that if a person's operations
are accompanied by insensible perspiration, then perspiration is
carried through the whole habit, and manifestly transpires through the

8 vide. *Præsentatione*.

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pieces of the skin as appears from the Antelope and small of Venous she
has taken it and from blood being absorbed in their pockets of colour
ink colour which is the known effect of capillary vessels.

In favour of the latter opinion it is maintained that it was never been
blotted in the circulation as to cause or format that the blood being
fully elaborated fluid nature is changed into a solid homogeneous
by the dissolving action of the lactals and no change in its taste, *Dr. W.*
Wells writes that when a substance of the kind is perceptible in the
circulation, and excretions of the body, it had been revised after being per-
mitted to rest unconcentrated by the powers of assimilation. It states that
"Lactals are polished, are improved by the lactals from plants which contain
nothing but the raw materials out of which these articles are made
without fermentation they cannot be obtained although substantially present
in the parent."*

Whether in its operation is a hypothesis, that has been taken into
consideration was, necessarily after the condition of the blood: or whether
of its present are exclusively the consequence of the state of the blood, which
a primary and opinion on the alteration is transmitted to the doctor.
They leave to refer to the decision of those whose superior and present and
more extensive research, leaves them better qualified than myself to

"Præsentem autem interuenientem beneficentiam inueniunt
muri et loci omnia ipsa exortationem per me inueni
Relicti quique gaudent."

x For the same work; also recommended the Eastern or West India
injection or System of Lickhu's with oil of Turpentine "in all diseases of
the rectum & intestines for ulcerations & obstructions of the urinary passages
is the only preparation of Sassafras that I know of which operates as Diuretic
The dose is 3 to 15 and it works in 2 or 3 days.

Might not this be useful in some Gonorrhoeal cases of Scrophulous?

x. *Salicor* *contractum* de *barren*. c. *Salicor* *barren* *Salicor*
a *Barren* 1777

Medical

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1. *Ullrichia*

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1871

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the nature in which this has been successfully used in a patient who
was suffering from (radicular neuritis)? Whether the medicine is entitled

to the preference just attributed to it I am not prepared to assert or long for
any remarks that it wants the sanction of further authority to establish
its value in these cases.

It is described in the literature only as a Laxative, but says it has the operation
of inducing the bowels to the most exact extent according to itself, and more it
is for the better and sometimes allows of operation and a resolvable effusion, though
it is said to induce and be one of most gentle laxatives that can be employed.

The person in the *Historia Medica* case of this disease was a Laxative
in the medicinal use of it, of *Colicostemum purpureum* in removing
these kind of spasmodic affections denominated "cramps," by wearing pieces
of this over the part prone to such attacks, much benefit has been expe-
rienced. A case is given of this benefit of a man who had been subjected
to the abdominal muscles, and who after having tried various remedies
without success, was cured by the use of this remedy. The various
remedies proposed of this disease are here strikingly exemplified, and it is
said to prevent the attack, but in taking it off the symptoms return, the
disease may be some weeks consecutive in a case.

If this remedy is also applied to act as a tonic, and be long given in



The practice of the Prussians is useful & profitable in some remarkable cases
where former Treaties were inconsistent or too faint to be good. Of these
in this particular we shall hereafter have occasion to speak in the application
of the theory to Individual Cases.

Having now considered the general effects of the Abolition
on the system, with the opinions of different authorities relative to its political
and Properties we shall proceed to its practical application. Though
in our own territory & establish the opinion of its multifarious Dispo-
sition. Combining together those of an efficient & extensive application
& salutary. Hence also, we observe, it may unquestionably be
used with advantage under proper circumstances, in a great variety
of Cases. The most prominent cases of which will next claim our
attention together with some general Principles to be observed in
regulating its employment.

Practical application of the theory.

From the diversified Properties of the Theory we may natu-
rally conclude that it admits a variety of indications, which we now
consider in the order of the theory. First, the Theory is



...and the application of these suppositories. And we find
...the design to detect such cases
...to the State. These are remarks into and small
...as possible, all permit.

In the case of the elementary nature of high action, which
...in general, is a disease of the system. The blood, from the
...in such a case, is not only not adapted to the
...of the blood. It is then, in the opinion of the
...it is a most useful medicine under a variety of circumstances.

Many of the causes of the elementary blood, properly so called, are
...to the low opinion, viz. among these, but the most common is leucorrhoea.

Suppositories in Asthenia. This disease is of frequent occurrence,
...sometimes difficult to manage. The subjects of its attack are mostly
...and delicate, and those of feeble constitutional habits. Its
...are numerous, and have been divided into Internal and External
...and inwardly in the stomach, and such as act on the stomach
...the blood of other parts of the body. Of the first of these
...the commonest, is a general state of debility, which
...but here we do not mean, *spina*. The external causes of *Apople*

is an intense study, delicate constitution, deviation of spirits, &c.

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the symptoms of this disease are a violent
intermittent fever, and the transient distensions of the stomach
which, however, pain is in the region of the stomach & intestines.
The fever is never so violent as in the first stage, but it is
very common. There are also several symptoms of a violent
fever, which this disease is the cause of. The disease is
the stomachic cancer has been defined by Haller: to be a kind of
inflammation of the muscular fibres of the stomach. It is
not however so, but it consists in a depressed or retarded action of
the stomach, by which digestion is imperfectly carried on. It is
therefore now considered the medicine now under consideration
is the only one.

In the Treatment of Dyspepsia the existing causes are to be
removed, and the medicine is generally directed to the first stage.
It is to be attended to whether the stomach is inflamed, or if it is
to be either dyspepsia or indigestion are the result. It is to be
attended to whether it is with great violence, or if it is
indigestion, we might expect it to be cured, and if it is
indigestion, the treatment of various diseases, which is to be
attended to, to relieve the disease, and other diseases, which are

The Lac Sulphureis is perfectly white with Magnesia
these mass, but there is little difference in quality between
preparation and the well prepared Washed Sulphur.

the effects which follow the application of sulphur it would
be also a sort of alternative changing imperceptibly the morbid
condition of the stomach till it finally restores that organ to its natural
state and health. When there is much acidity it has
been found to be it combined with Magnesia. After
the removal of the Acid the stomach the regtable state is restored
usually results. But in the milder forms of the complaint after the
removal of the stomach and some degree of purgation the use
of sulphur continued for some time would prove be highly advantageous
not to cure relief but prevent the recurrence of the disease.

There is another disease which appears to be allied to Scirrhus
and a symptom of Dyspepsia called the Sick Head ach which occurs
in many cases often preceded by many of the symptoms of imperfect
digestion and indigestion. The use of Sulphur combined with Magnesia
as an adjuvant in this case also be highly advantageous and
in some instances has been proved.

The use of Sulphur in Constipation is attended with much
benefit. This though not always productive of similar effects on differ-
ent individuals is connected with and often an exciting cause of Dyspepsia
and are indeed some instances record of persons having suffered much

with the publisher by Dr. Chapman. I can also remember
by Waller of a person who had passed 70 years without an alarm
sounding. If my memory is correct — I have not the work at present
to refer to.

months we can leave without an evacuation from the bowels, or
are obliged to suffer not little inconvenience from its interruption.
But the habit of being so generally distended live to health and causes vertigo
nausea, nausea, flatulency and offensive excretions from the bowels
&c.

Whether we attribute this condition of the bowels to an irrita-
bility or to a too much change, or to a deficiency of bile or to a diminution of its
properties: the use of Laxatives would appear to be rather directed after
evacuation, occasioned by strong, & rather to relieve the bowels of undue
and impeded forces. The rationale of its operation would be
to assist that irritable state of the bowels by promoting easy and regular
action, and by its prevailing influence over the body, which however of
itself, the evacuation it would greatly tend to invigorate the action
of the Liver, & to relieve the deficiency of bile, and impeded condition.

Strawberry wine, or a pint of Magnesia & Cream of Tartar, is used
or 3j or 3ij each once or twice a day, as the case demands, to
induce a natural daily evacuation. To illustrate the influence
of this in constipation it may be necessary to remark, that most
other purges by inducing large evacuations occasion indirect stimuli
of the intestines, and a state of irritability again induces after their
operation. But Laxatives on the contrary, by acting principally on the

Pinguicula lusitana & *modica* var.

great solution the mildness of its operation and probably also by the
less impurities which it imparts appears well calculated to answer that
purpose. "The medicinal testimony of this liquor seems well adapted as it
has a laxative tendency after its operation, without inducing that state of
debility which supposes a phlogistic or excitation." In these cases it
is recommended to be sometimes combined with equal parts of turpentine
in form of an electuary.

In Colic the use of Sulphur has been attended in some instances
with much benefit. I have known it prove highly efficacious in a
ye. Thomas who was subject to what may be denominated Bilious Colic after
an intermittent remittent or tedious fever from which he did not ever
manage to recover his usual health. These attacks generally
confined him several days and were accompanied with a yellowness of
the eyes and skin, indigestion, excitation, indigestion, and a general
torment of the junctions of the body. After a variety of treatment
he was at length induced to resort to the use of Sulphur whenever a slight
pain with excitation and other premonitory signs of an approaching
attack made their appearance; and the result was, a complete eradication
of the disposition to those attacks and the restoration of
health. It should not be omitted, that on several occasions a dose of the

[Faint handwritten notes from another page visible through the paper.]

It has been taken before the pain became very severe, and it was
as effectually as an Urtique. And its reported use for several days
brought to the remission of pain. It was the practice to use the
medicine a dose of about ʒj twice a day, until digestion was
nearly restored, and by its reported employment in this way, the
cure became fully established.

Urtique was once considerably used in Dysentery. In the more violent
forms of this disease, I do not suppose it will be adopted as a more active
treatment would be demanded. Yet as observed by Dr Ferguson in Dysent
ery, that disease which partakes of the character of the inflammation of
the bowels, Urtique might perhaps be applied with advantage.

In Diarrhoea much more benefit is to be expected from the use of the
medicine. Here however it is also proper to resort previously to the use of an
emetic and one of the more active Cathartics, to evacuate thoroughly the
alimentary Canal. If that form of Diarrhoea which succeeds an attack
of Malaria has been found a most useful remedy, is the history of my own
case, and a case at Hindhead. In the year 1813 during a slow recovery
from a violent attack of Malaria, I was seized with a Diarrhoea
accompanied with distressing, burning and pain. The discharges
from the bowels were stinging and bloody as in Dysentery, and the
Diarrhoea

[illegible]

in action & circulate in great & constant circulation. This is also
much more in a slight translocation, about the sericium. The, as is
as well as I can remember, more subtle and present than material. This
is also some febrile or inward fever and a general prostration of
Strength. At that time I had not commenced the study of medicine and
I knew nothing of the properties of brachia; but it appeared to
me a natural inference, that the affection of the bowels might in some
be tracing a determination to the surface. I was therefore led to make the
experiment. Having seen Sulphur moderately used I was somewhat doubtful
of preserving its effects and determined on giving it a trial. Accordingly
after having procured a dose of the Sulphur Magnesia to induce a free
evacuation from the bowels I began the use of Sulphur in doses of
about ʒij three times a day (subsisting at the same time) on thin
starch diet. This remedy happily had the desired effect: a relaxation of brain
nearly ensued; the loquacious and loquacious conversation ceased;
the countenance and natural look bright, and in about three days
complete relief occurred. In this case the Sulphur appeared to perform
the part not only of a laxative & Diaphoretic, but also as an Anodyne
and Tonic. It certainly proved an efficacious remedy and exhibited in
its effects the combined operation of each of these properties.

I have been informed from very respectable authority, of an old man a Hemorrhoids being often relieved by, & cured of this disease on some occasions at least. In one of those cases the gentleman informed me that he had been subject to this disease many years, but that since he began wearing the sulphur pad in one of the pockets of his pantaloons, he was entirely freed from it.

A roll of brimstone is sometimes used in place of the pad.

(1) As a preventive to Intermittents or to guard the system against it, especially in this climate, the occasional use of sulphur might serve as a remedial country. It is known that the smell of sulphur may be perceived in the evacuations, some days after it has been taken. From this permanent impression therefore, which it appears to make on the system it is reasonable to suppose that its action would be sufficient to resist or prevent morbid impressions.

For the same reason, might it not be useful as a preventive of medicinal use in that way, to the infection of typhoid fever or crowded places?

From the action of *Scrophularia* on the great intestines, & its
tendency to rid the circulation of these parts, it is a most useful
remedy in the treatment of the *Scrophularia* disease. It is
one of the most useful I get to know of for the cure of the
disease internally or externally in form of a ointment.

In the cure of *Scrophularia* this medicine hasy had the most
attention. It appears to have been first used by *Scrophularia* in the
mucous form of inflammation of the nose, of *Scrophularia*, who takes the
young of *Scrophularia* in beauty, in some persons & the rest of the disease
of the *Scrophularia*, it will be altogether prevented. In some of the diseases
was at first imputed to the brain, but in the treatment of it *Scrophularia* it
is found equally beneficial when given in such quantity as any other
kind of vehicle; and he observes that raising solely from any cause
inflammation, fever and fever cured by it he now believes depends almost
entirely on the efficient ingredient.

In the treatment of *Holistic*, it has been employed with success
by *Dr. Chapman*, who observes that few such diseases was
known over the febrile condition, especially when marked by the
paroxysmal type than *Holistic*. The useful experience of
Dr. *Physick* with this medicine in febrile diseases and
other

x side Handwriting by Christmas.

these mercurial diseases should be altogether in it sooner.
I am not now entitled to what I have to say of the efficacy of Quicksilver
in those cases. It is true, to add to the evolutions already made, the
following from Dr. Whistman. "It affords me pleasure to
be enabled to cite the authority of Dr. Sydenham in support of the
view of the properties of the mercurius. I say to go so far as to
believe that in all fevers of an anomalous or equivocal character,
having a tendency to intermit, & where from the state of the system
the remission tends to be inadmissible, he has experienced frequent
to amplify the best effects. The use of the mercurius, he has even
extended to other Periodical diseases & has observed to effect a cure of the
next of the descriptions, the propriety of doing which I have adopted
in several cases in my own practice." It may now be
seen in what authority, and under what circumstances I advocate
the employment of this mercurius. It is true, that in many instances
its influence on the system is not so apparent. But it is not to be
measured on this account less efficacious. How often do we see
mercurius, of the least possible activity, produce the most powerful
results & check the operation of mercury when gradually admini-
stered to produce salivation. And the action of all toxic mercurius

The use of
the two

in giving strength to the system is not more possible.

In the intermittent fever the application of sulphur is not very apparent except during convalescence to regulate the state of the bowels and correct any anomalous symptoms which may occur.

In febrile fever indications of a more active kind are required. Sulphur might be usefully employed in those cases where gentle evacuations from the bowels are necessary, and from its tonic power combined with its local use, probably it answers this indication without increasing the febrility. It would also assist in determining to the surface by increasing the action of the cutaneous vessels, and act in supporting the system as a gentle restorative.

In some of the milder forms of the late winter epidemic where it assumed the pneumatic form, I have known it used with success in joint with warm beverages. It appeared to do good in these cases by operating as a cathartic and gently stimulating, diaphoretic, while at the same time it quieted the cough & rendered expectoration more easy.

The use of Sulphur in Pestil or Plague is spoken of by some of the older writers. It appears to have been so highly esteemed by Sennertius as to be thought almost a specific against the disease.

x Fumigations of Sulphur (see also, *Maladies* (in the
"Gentleman's Magazine" for 1754.) for destroying or preventing
the contagion of Plague. *See* says app. med.

Whether the internal use of Sulphur or the sulphurous acids
formed by fumigation are either, denunciable, or relieving or
preventing the disease, is a question not for me to decide.

* It may be proper to observe that there is a Preparation of Distilled
the Hydrog. or Hydro-sulphuret of Ammonia, which is recommended
by Dr. Rollo as a remedy for Diabetes. *See* note to the article on
Diabetes.

This Preparation is formed by the direct mixture of Distilled
Hydrogen and Ammoniacal gases, in a proper vessel.
Passing Sulphuretted Hydrogen gas through a Solution of
Ammonia till the liquid assumes a yellow colour;
Evaporate to dryness.

to receive it to be given with Vinegar. It is said also by Astruc
injures that the Pague which prevailed in Hungary in 1746 was
successfully treated by the use of this medicine.

The utility of Sulphur in Dropsy is not obvious. But, I think,
I don't suppose it is reasonable in that state of the disease in which
diaphoretics are indicated. It would doubtless have some tendency to
rationalize the excitement, as well as to promote absorption, and
assist in the reestablishment of health.

In Diabetes the use of Sulphur would appear to ^{be} more strongly
indicated; whether the origin of the disease be referred to a derange-
ment of the secretory organs of the urina, or to a vitiated and prostrated
condition of the digestive functions. Its known propensity of diverting
action from the kidneys to the bowels, would point out its utility in the
first view; and its utility in Dyspepsia would render it applic-
able to the second. ~~Accordingly~~ I would not presume to propose
it any further than as an auxiliary remedy in that state, in which
Diaphoretics and Urics are employed.*

In Rhetted Eruptions the use of Sulphur has been highly
recommended; and in Asthma Epilepsy and other convulsive diseases
employed in this way. To relieve the Epilepsy of Infants it is

8. *Antropometrische Untersuchungen*





"^{10/22} on the true nature and the true method of creating the
"Giant" : on Nov. 1/92."

Baccharis

constant stimulus is required. It goes on as next to certain
Inflammation. The two have sometimes been distinguished
as much, but it is difficult to distinguish them. In principal life
we observe to be that most often arises from some injury, or
inflammation not without some exciting cause. In the former
the stomach is supposed to be the primary seat. In the latter,
the action seems more purely local. In the former also, the process
is more serious than in the latter. So that the former may be
considered as the first & dangerous, and the latter a contagious
disease. Inflammation has moreover been supposed to extend, in part
of the body, and occupying the secondary blood; but not of primary
action. It most often the stomach, and it extends to various
other parts of the system, & often highly inflammation of the stomach
leads to peculiar action, & does not always an terminal
one. The morbid inflammation. These forms are also pointed
out in inflammation. The acute and chronic & acute and chronic.

The treatment is said to be the same form of inflammation, is a kind
of action, inflammation and rigid prosecution; but it is not altogether
plain, differing little from the treatment of other acute or chronic
diseases, & gives a bad longer list of distinguished and acute inflammation.

2. The same results sometimes occur in the disease of the middle of the
intervertebral space. The case of the above is especially remarkable
with some of the bones and a goodly proportion of the
the spine is situated in a lower position than of the spine.

of the disease. When Sarsapilla and the other purgatives have been thrown around the system with some advantage, such as it may be a diaphoretic, and lastly there is a tendency to be diseased.

In the Chronic form of Rheumatism it is even more strongly indicated than in the acute. There is this genus often quiescent, the arterial system accompanied with prostration of muscular power. In this case, a strong impression having been previously made by an active purge, the use of Sarsapilla may be resorted to with great advantage to regulate the state of the bowels and quench excitement, which has now been discovered to be gone, a more healthy action throughout the body, which, moderate diaphoretic and spots in sustenance degree of temperature.

In Rheumatism a low form of disease, arising from long protracted and cured Rheumatism, the late Dr. Rush recommended the "habitual use of Sarsapilla" as an alternative.

In the Chronic state of Rheumatism attended with pain the remedy is highly spoken of by Dr. Rushman who states that in opposition to the employment of the disease is continued in the form is attended. It has been recommended in it in such doses as to treat



is however in a more invigorating condition - not quite perspiration, when
the inner surface is cooled the hands made a lively tremor he
went with Magnesia or Trismus Taster. It may also be advantageously
coupled with stimulating Sarsaparilla (see Cardiac).

through the workings of my friend Mr. Spence's house was a resident
doctor in the "Hans House" who at once put under the Dutch
doctors the necessary papers and put me to rest. I am enabled to
present the following case as a reliable and satisfactory evidence
of the existence of the disease of Rheumatism.

(Faintly written) Dec 29. Has been affected with chronic rheumatism for the last 10 months. She took cold in November 1877, and was much affected with Rheum. in her limbs. She was unable to move her limbs except for three months. After a variety of treatment, she underwent a Serravallo's, which relieved her feelings and during the last winter she was able to move about a little with the assistance of crutches. At the return of Fall her complaint returned in still a severity. At medical attention however very tender, her condition was considered into this house on Decr 29th 1878. For Syphilis. At this time was suffering in the limbs from the back severe dry Rheum much frequent desire. Her appetite pretty good; nervousness



very early Shivers are swelling of the joints. After Drugging
for several days with Sulphur and Op. last Sat. she was put
in the cold sulphur bath 3/4 of 8. Evening bath was
given and continued with it for several days but willing to give the
Sulphur a fair trial, it was omitted. That medicine (Sulphur)
has not been repeated in many days, before she began to get
with a more abundant & refreshing & much gratified. But she still
is not quite ⁱⁿ her joints. The heat has ceased but
sometimes affects her hands causing a burning & itching. On 12 or 13
days she requests that a pair of crutches should be provided, that she
might be able to walk aided by the fire. Her first day cost her
considerable fatigue perhaps from the rigidity and want of tone in
her muscular system. The Sulphur has been continued with
occasional interruptions when the bowels became oppressed and has been
the only medicine prescribed. She now (20th Feb.) walks with
very little assistance and her general health is much improved. There
has been an almost continued moisture on the surface and the joints
have become stiffer and colder.

Her case is very touching and is almost slow sufficient to establish
the efficacy of Sulphur as a medicine in chronic Rheumatism. The reason

[illegible]

not be added to the rest, cannot serve to distinguish the
disease.

The presence of catarrhs in Chronic Pneumonia is not neces-
sarily so. It may rise on properties which serve to
induce a venous tendency in the vessels and determine to the lungs
the action. But this ^{local} disposition is not sufficient to explain
it, as the same disease does not often result in one or other
of these conditions, then produce the same effect in a higher degree.
It differs, and therefore be given to the combined observation of many
longer periods. It seems that it is a peculiar action
which is particularly applicable to this disease, and in all dis-
eases, when its powers shall have been fully tested, it will be
found as much a specific in Chronic Pneumonia as
Purulent Pus in Intermitting fever.

Whether we can see immediately two in Pneumonia
as appears to some to which, even when it has not appeared, is
a constant.

As the late Dr. Rush has shown in his comments in
the course of his lectures. It is one of those various varieties
sometimes termed to us, off a general the occurrence of Purulent
after

after the appearance of some of the premonitory signs. In short, to all the diseases of the Muscular System, Sulphur may be said, under proper circumstances, to be particularly adapted, and generally useful.

To many of the Cutaneous diseases, Sulphur is also applicable. Of its employment as an External remedy little need be said. Its use as an External remedy in *Psoas* is too well known to require observation. In *Tinea Capitis* it has proved in the practice of Dr. Chapman highly useful. An Ointment made of the Sulphur with Lard, and the addition of the *Muriac Ammoniac*, is said to have been effectual, in cases which had baffled other remedies.

Having now treated this subject so extensively, as time or the limits of an Essay will allow, it only remains before we conclude, to add a few general observations relative to the employment of the medicine.

1. It is not adapted to diseases of high action, at least until after active depletion has been premised.
2. It should never be employed to the exclusion of more active remedies when they are indicated.
3. It is best adapted to diseases of a Chronic Character, and those cases,

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where the pulse and other functions are below the natural standard; and its employment should in general be preceded by an emetic or active purgative.

4. When by continued use it produces griping, it should be intermitted a few days.

5. The mode of its administration is generally in doses of from \mathfrak{ss} to \mathfrak{ssj} two or three times a day, when given as a laxative. But when given as a diaphoretic, or to obtain the benefit of its other properties, the quantity should be lessened. To answer the latter intention, about \mathfrak{ss} every third or fourth hour is perhaps sufficient.

Enough, it is presumed, has been said, to illustrate in some measure, the importance of Sulphur as a medicine; and the circumstances under which it may be most advantageously employed. As a popular remedy, it is certainly well calculated to admit of extensive application; on account of its safety; and its use might with propriety be further encouraged. It would, in many respects, be infinitely preferable, to the numerous nostrums which have been prepared by empirics and vended in such abundance throughout our country, to the injury of the community; and the reproach of an enlightened government, for legalizing such deceptions. To the attention of